

- [54] **NITRIC OXIDE ABATEMENT WITH POLYMERIC COBALT(III) CHELATES**
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- [58] **Field of Search** ..... 423/235, 385, 395; 210/758, 763; 204/112, 149
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[57] **ABSTRACT**

An NO abatement process wherein an NO-containing fluid is contacted with a polymeric cobalt(II) dioxygen diamine complex. The aqueous solution is recovered, purified by membrane separation to remove low molecular weight reaction products, optionally electrolytically regenerated, and recycled for the NO-containing gas contact. The cobalt(II) is complexed with an amine-containing polymer such as polyethyleneimine free of acidic, e.g. carboxylate, chelating groups.

**19 Claims, 1 Drawing Sheet**

